Attachment 1

PriID	Geographic Lo	W Wisconsin NCA Project Status from MISO Proj	Target Appendix			xpected ISD	From Sub	To Sub	Voltage V	olt Low	Facility Desc	Plan Status	6/14/2012 Est Cost
90	ITCM	Emery-Lime Crk 161kV. Ckt 2	A in MTEP03	А	189	6/1/2007		Lime Creek	161		New Facility	In Service	\$8,000,000,00
1287	ITCM	Replace Salem 345/161 kV transformer with 448 MVA unit	A in MTEP06	A	2116		Salem 345/161 kV	transformer	345		Larger Xfmr	In Service	\$6,600,000.00
1288	ITCM	Replace Hazleton 345/161 kV transformer #1 with 448 MVA unit	A in MTEP06	Α	2117			transformer	345	161	Larger Xfmr	In Service	\$5,650,000.00
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345/161 kV 448 MVA transformer.	A in MTEP08	Α	2973	12/31/2012	Hazelton	345 termination	345		Expand ring bus to a five breaker ring bus (r	Planned	\$1,422,000.00
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	A	2974	12/31/2012	Salem	345 termination	345		Expand ring bus to a five breaker ring bus (r		\$7,790,000.00
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	A	4905	12/31/2012	Salem	Hazleton	345		Construct a new 345-161kV dbl ckt line(54 r	Planned	\$110,000,000.00
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	Α	4906	12/31/2012	Salem	Transformer	345	161	Upgrade Salem 345 sub & add 2nd 345/161	Planned	\$5,650,000.00
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	Α	5388	12/31/2012	Hazleton	Dundee	161		Rebuild the 161kV line to 326 MVA capacity	Planned	
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	A	5389	12/31/2012	Dundee	Liberty	161		Rebuild the 161kV line to 326 MVA capacity	Planned	
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	Α	5390	12/31/2012	Liberty	Lore	161		Rebuild a portion of the 161kV line to 326 M	Planned	
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	Α	7257	12/31/2012	Salem	Reactor	345		Install a 345kV 40 Mvar reactor and breaker	Planned	
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	Α	7258	12/31/2012	Dundee	terminal equipment	161		Relay upgrades	Planned	\$36,000.00
1340	ITCM	Hazleton - Salem 345 kV line with a 2nd Salem 345	A in MTEP08	Α	7259	12/31/2012	Liberty	terminal equipment	161		Relay upgrades	Planned	\$36,000.00
1342	ITCM	Coffey (Lewis Fields) 161 kV substation which taps Swamp Fox - Coggon 115 kV line	A in MTEP06	A	2208	12/31/2014	Coffey (Lewis Fields)	Hiawatha	161		Construct a new 161kV line (~ 9 miles) from	Planned	\$16,080,360.00
1342	ITCM	Coffey (Lewis Fields) 161 kV substation which taps §	A in MTEP06	Α	2209	12/31/2014	Coffey (Lewis Fields)	transformer	161	115	Construct a new Coffey (formerly Lewis Fiel	Planned	\$2,500,000.00
1342	ITCM	Coffey (Lewis Fields) 161 kV substation which taps \$		Α	4902	12/31/2014	Hiawatha	new 161 kV line termin	161		Add 161 kV breaker & associated equipmen	Planned	\$1,200,000.00
1342	ITCM	Coffey (Lewis Fields) 161 kV substation which taps \$	A in MTEP06	Α	5632	12/31/2014	Coffey (Lewis Fields)	new 161-115 kV Subst	161	115	Construct a new Coffey (formerly Lewis Fiel	Planned	\$4,340,000.00
1342	ITCM	Coffey (Lewis Fields) 161 kV substation which taps \$	A in MTEP06	Α	5633	12/31/2014	Coffey (Lewis Fields)	SwampFox	115		Install new 115 kV line terminal to Swamp F	Planned	\$0.00
1342	ITCM	Coffey (Lewis Fields) 161 kV substation which taps \$	A in MTEP06	Α	7253	12/31/2014	Coffey (Lewis Fields)	Coggon	115		Install new 161 kV line terminal to Coggon(S	Planned	\$0.00
1346	ITCM	Upgrade conductor inside the substation so the ratings of Rock Creek 345/161 kV transformer are 448 MVA limited by transformer	A in MTEP08	A	2214	6/1/2010	Rock Creek	transformer	345	161	upgrade limiting equipment	In Service	\$13,400.00
1349	CIPCO	Replace Dundee 161/115 kV transformer with new ratings as 112/112 MVA		A	2218	6/1/2011	Dundee	transformer	161	115	replace transformer	Planned	\$100,000.00
1618	ITCM	Heron Lake-Lakefield 161kV Ckt 1 Rebuild	A in MTEP08	Α	2720		Heron Lake	Lakefield Jct	161		Rebuild	Planned	\$14,000,000.00
1746	ITCM	Lakefield-Adams 161 kV Rebuild	B in MTEP10	В	3549	12/31/2014	Fox Lake	Rutland	161		Rebuild existing line	Proposed	\$11,900,000.00
1746	ITCM	Lakefield-Adams 161 kV Rebuild	B in MTEP10	В	3550	12/31/2015	Rutland	Winnebago	161		Rebuild existing line	Proposed	\$10,220,000.00
1746	ITCM	Lakefield-Adams 161 kV Rebuild	B in MTEP10	В	3551	12/31/2017	Lakefield Jct	Fox	161		Rebuild existing line	Proposed	\$15,610,000.00
1746	ITCM	Lakefield-Adams 161 kV Rebuild	B in MTEP10	В	3552	12/31/2016	Winnebago	Hayward	161		Rebuild existing line	Proposed	\$34,370,000.00
1746	ITCM	Lakefield-Adams 161 kV Rebuild	B in MTEP10	В	3553	12/31/2018	Hayward	Adams	161		Rebuild existing line	Proposed	\$25,480,000.00

⁹ projects

⁴ in service

P1746 Lakefield - Adams 161 kV rebuild project is effectively replaced (from NCA perspective) by P3205 and P3213 Multi-Value Projects in southern MN and northern low

		161 kV rebuild project is effectively replaced (fro									Filit. D	Diam Chatria	Est Cost
PrjID	Geographic Lo	- 7=	Target_Appendix					To_Sub		Volt_Low	Facility_Desc	Plan_Status	
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct	A in MTEP11	Α	5951	12/1/2016	Sneidon	Webster	345		Sheldon to Webster 345/161 kV double ckt I	Planned	\$231,261,000.00
		Winnebago - Winco - Burt area & Sheldon - Burt											
2005	MEG ITOM	Area - Webster 345 kV line	A :- MTED44	Α	5000	10/1/0010	Chalda		245		New Chaldes there was 245 IV Contables C	Diseased	£40, 450,000,00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	5990	12/1/2016		0.1.1.0	345	404	New Sheldon three-way 345 kV Switching S		\$10,450,000.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6520		Winnebago	Substation	345		Construt a new sub with a 345kV ring bus w		\$27,360,000.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6521		Winnebago	transformer	345	161	Add a 345/161kV TRF	Planned	\$0.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6522	12/31/2015		Winnebago	345		Construct 345-161kV double circuit	Planned	\$119,337,438.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6523	12/31/2015		Fox Lake	161		Retire existing 161kV H frame circuit	Planned	\$1,155,888.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6524	12/31/2015		Fox Lake	161		Construct 345-161kV double circuit	Planned	\$0.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6525	12/31/2015		Rutland	161		Construct 345-161kV double circuit	Planned	\$0.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6526	12/31/2015		Winnebago	161		Construct 345-161kV double circuit	Planned	\$0.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6527	12/31/2015		Rutland	161		Retire existing 161kV H frame circuit	Planned	\$804,097.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		A	6528	12/31/2015		Winnebago	161		Retire existing 161kV H frame circuit	Planned	\$804,097.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6529	12/31/2015		Substation	345		Add a 345kV terminal at Lakefield including		\$5,000,000.00
3205	-	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6530		Winnco West	substation	345		Construct a new Winnco West 3-terminal 34		\$10,980,000.00
3205		Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6531		Winnebago	Winnco West	345		Construct 345-161kV double circuit	Planned	\$47,734,975.00
3205	-	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6532		Winnebago	Winnco West	161		Retire existing 161kV H frame circuit	Planned	\$1,105,632.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6533		Winnco West	Burt	345		Construct 345kV circuit	Planned	\$41,225,660.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6534	12/31/2015		Fairbault Co	161		Construct 345-161kV double circuit	Planned	\$0.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6535		Winnebago	Fairbault Co	161		Construct 345-161kV double circuit	Planned	\$0.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6560	12/1/2016			345		New terminal at Webster for Sheldon - Webs		\$6,401,000.00
3205	MEC, ITCM	Proposed MVP Portfolio 1: Lakefield Jct Winnebag		Α	6561	12/1/2016			345		New three-way 345 kV Switching Station ne	Planned	\$10,450,000.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 kV line	A in MTEP11	Α	5991	12/31/2015	Blackhawk	Hazleton	345		Construct 345-161kV double circuit	Planned	\$23,866,416.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	5992	12/1/2015	Black Hawk	Black Hawk	345	161	Black Hawk 345-161 kV substation with 560	Planned	\$15,019,000.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6424	12/1/2015	Franklin	Butler	161		Rebuild Franklin-Butler 161 kV line.	Planned	
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		Α	6425	12/1/2015	Butler	Union Tap	161		Rebuild Butler-Union Tap 161 kV line.	Planned	
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6426	12/1/2015	Union Tap	Black Hawk	161		Rebuild Union Tap-Black Hawk 161 kV line.	Planned	
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6427		Black Hawk	Hazleton	161		Rebuild Black Hawk-Hazleton 161 kV line.	Planned	
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6536	12/31/2015	Winnco West	Lime Creek	345		Construct 345-161kV double circuit	Planned	\$132,356,067.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6537	12/31/2015	Lime Creek	Worth County	161		Construct 345-161kV double circuit	Planned	\$0.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6538	12/31/2015	Winnco West	Winnco	161		Retire existing 161kV H frame circuit	Planned	\$804,096.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6539	12/31/2015	Worth County	Lime Creek tap	161		Retire existing 161kV H frame circuit	Planned	\$251,280.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6540	12/31/2015	Lime Creek tap	Lime Creek	161		Retire existing 161kV H frame circuit	Planned	\$226,152.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6541	12/31/2015	Lime Creek	Substation	345	161	Construt a new sub with a 345kV ring bus w	Planned	\$18,930,000.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	A in MTEP11	Α	6542	12/31/2015	Lime Creek	transformer	345	161	Add a 345/161kV TRF	Planned	\$0.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		Α	6543	12/31/2015	Emery	Substation	345	161	Construt a new sub with a 345kV ring bus w	Planned	\$19,380,000.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		Α	6544	12/31/2015		transformer	345		Add a 345/161kV TRF	Planned	\$0.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		Α	6545		Lime Creek	Emery	345		Construct 345-161kV double circuit	Planned	\$34,716,345.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6546		Lime Creek	Emery	161		Construct 345-161kV double circuit	Planned	\$0.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6547		Lime Creek	Emery	161		Retire existing 161kV H frame circuit	Planned	\$804,096.00
3213	-	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6548	12/31/2015		Blackhawk	345		Construct 345-161kV double circuit	Planned	\$57,677,172.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6549	12/31/2015		Blackhawk	161		Construct 345-161kV double circuit and tran		\$0.00
3213	MEC, ITCM	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6550	12/31/2015		Blackhawk	161		Retire existing 161kV H frame circuit	Planned	\$1,457,424.00
3213		Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6551		Blackhawk	Hazleton	161		Construct 345-161kV double circuit	Planned	\$0.00
3213		Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6552		Blackhawk	Hazleton	161		Retire existing 161kV H frame circuit	Planned	\$603.072.00
3213		Proposed MVP Portfolio 1 - Winco to Hazelton 345 k		A	6553	12/31/2015		Substation	345	161	Convert the 345kV ring bus to a breaker and		\$14,200,000.00
	-			A	6557				345				
3Z I 3	IVI⊑U, I I UIVI	Proposed MVP Portfolio 1 - Winco to Hazelton 345 k	AINWIEPTT	А	000/	12/31/2015	Blackhawk	Emery	345		Blackhawk - Emery 345/161 kV double circu	riannea	\$124,122,070.00